

WHAT IS CLAIMED IS:

1. An extraction device for use in a casting apparatus to remove a stuck cast part, the casting apparatus including a moveable mold section and a stationary mold section so that when the moveable mold section is in a closed position and in contact with the stationary mold section a part shape cavity is defined, said extraction device comprising:

an extraction member disposed in the stationary mold section during the casting of a cast part, said extraction member disposed adjacent the part shape cavity and moveable between a first position, wherein the extraction member cooperates with the mold sections to form a part of the part shape cavity, and a second position, wherein said extraction member is operative to engage and eject the stuck cast part from the part shape cavity.

2. The extraction device according to Claim 1 wherein said extraction member is disposed in a cavity provided in the stationary mold section.

3. The extraction device according to Claim 1 wherein said extraction member includes a shoulder for supporting said extraction member on a ledge of the stationary mold section to prevent flash into said cavity thereof during a casting process.

4. The extraction device according to Claim 1 wherein said extraction member includes a lever, a lock, a plate, a pin, and at least a first threaded fastener which is operative to releasably secure said extraction member in the stationary mold.

5. An extraction device for use in a casting apparatus to remove a stuck cast part, the casting apparatus including a moveable mold section and a stationary mold section so that when the moveable mold section is in a closed position and in contact with the stationary mold section a part shape cavity is defined, said extraction device comprising:

an extraction member disposed in a cavity of the stationary mold section during the casting of a cast part, said extraction member disposed adjacent the part shape cavity and moveable between a first position, wherein the extraction member cooperates with the mold sections to form a part of the part shape cavity, and a second position, wherein said extraction member is operative to engage and eject the stuck cast part from the part shape cavity, said extraction member includes a lever, a lock, a plate, a pin, and at least a first threaded fastener which is operative to releasably secure said extraction member in the cavity of the stationary mold.

6. The extraction device according to Claim 5 wherein said extraction member includes a shoulder for supporting said extraction member on a ledge of the stationary mold section to prevent flash into said cavity thereof during a casting process.

7. A casting apparatus comprising:
a stationary mold section;

a moveable mold section which is moveable relative to said stationary mold section between an opened position and a closed position, in said closed position said moveable mold section in contact with said stationary mold section to define a part shape cavity; and

extraction device for removing a stuck cast part from said stationary mold section, said extraction member disposed in said stationary mold section during

the casting of the cast part, said extraction member disposed adjacent said part shape cavity and moveable between a first position, wherein said extraction member cooperates with the mold sections to form a part of said part shape cavity, and a second position, wherein said extraction member is operative to
5 engage and eject the stuck cast part from said part shape cavity.

8. The casting apparatus according to Claim 7 wherein a plurality of said extraction devices are disposed in said stationary mold section.

10 9. The casting apparatus according to Claim 7 wherein said extraction member is disposed in a cavity provided in said stationary mold section.

15 10. The extraction device according to Claim 7 wherein said extraction member includes a shoulder for supporting said extraction member on a ledge of said stationary mold section to prevent flash into said cavity thereof during a casting process.

20 11. The extraction device according to Claim 7 wherein said extraction member includes a lever, a lock, a plate, a pin, and at least a first threaded fastener which is operative to releasably secure said extraction member in the stationary mold.